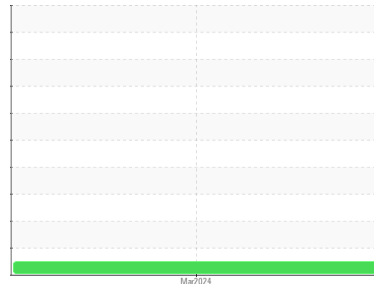




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

AUGUSTE ROSS [02625862]

Machine Id

LINKBELT 75X3 LBX075Q6NPHEX1566

Component

Hydraulic System

Fluid

PANOLIN HLP SYNTH 46 (97 LTR)

DIAGNOSIS

Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

Wear

Les taux d'usure de tous les composants sont normaux.

Contamination

Il y a une faible concentration (<5.0%) d'huile minérale présente dans le fluide. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La teneur en eau est négligeable. La propreté du système et du fluide est acceptable.

Fluid Condition

Le AN est acceptable pour ce fluide. L'état de l'huile permet d'en prolonger l'utilisation.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | WC | --- | --- |
| Sample Date | Client Info | | 31 Mar 2024 | --- | --- |
| Machine Age | hrs | Client Info | 8 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | NORMAL | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Iron | ppm | ASTM D5185(m) | >20 | 0 | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | --- |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | --- |
| Titanium | ppm | ASTM D5185(m) | | <1 | --- |
| Silver | ppm | ASTM D5185(m) | | 0 | --- |
| Aluminum | ppm | ASTM D5185(m) | >10 | 0 | --- |
| Lead | ppm | ASTM D5185(m) | >10 | 0 | --- |
| Copper | ppm | ASTM D5185(m) | >75 | 0 | --- |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | --- |
| Antimony | ppm | ASTM D5185(m) | | 0 | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- |
| Beryllium | ppm | ASTM D5185(m) | | 0 | --- |
| Cadmium | ppm | ASTM D5185(m) | | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------|---------|--------------|----------|
| Boron | ppm | ASTM D5185(m) | 0 | <1 | --- |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | --- |
| Magnesium | ppm | ASTM D5185(m) | 0 | <1 | --- |
| Calcium | ppm | ASTM D5185(m) | 0 | 3 | --- |
| Phosphorus | ppm | ASTM D5185(m) | 1700 | 1568 | --- |
| Zinc | ppm | ASTM D5185(m) | 0 | 7 | --- |
| Sulfur | ppm | ASTM D5185(m) | 1350 | 1404 | --- |
| Lithium | ppm | ASTM D5185(m) | | <1 | --- |

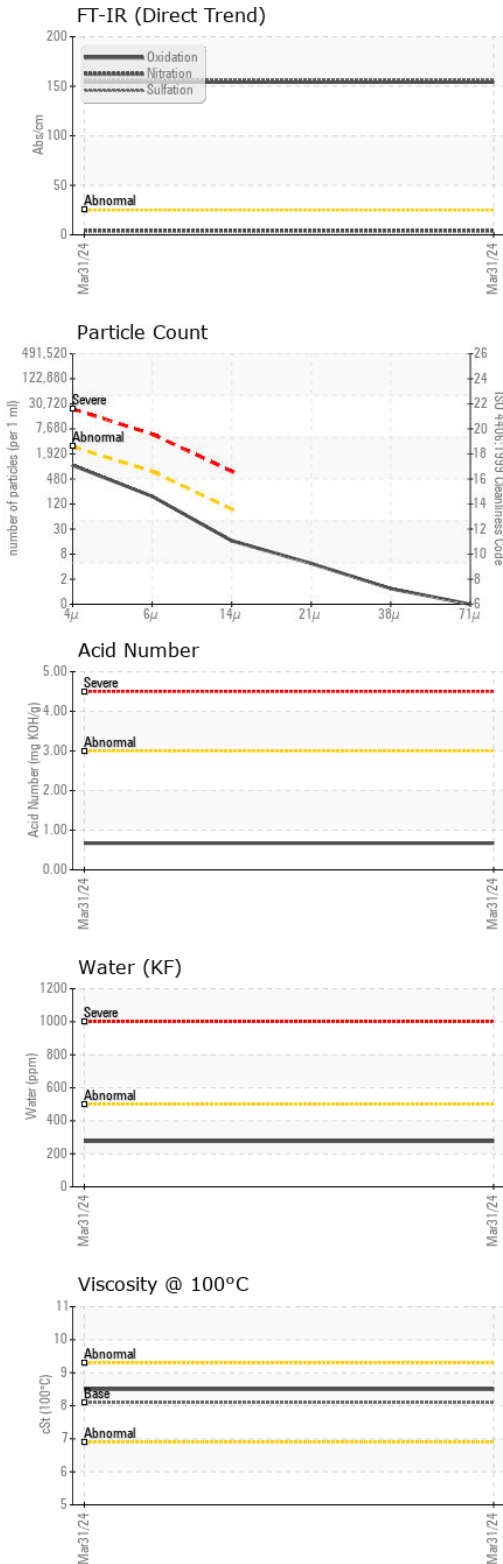
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Silicon | ppm | ASTM D5185(m) | >20 | 0 | --- |
| Sodium | ppm | ASTM D5185(m) | | <1 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | --- |
| Water | % | ASTM D6304* | >0.05 | 0.027 | --- |
| ppm Water | ppm | ASTM D6304* | >500 | 276 | --- |

INFRA-RED

| | method | limit/base | current | history1 | history2 |
|---------------------|----------|-------------|---------|----------------|----------|
| Soot % | % | ASTM D7844* | | 0 | --- |
| Nitration | Abs/cm | ASTM D7624* | | 4.1 | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | | 157.0 | --- |
| Mineral Oil Content | % | ASTM D7418* | <5.0% | <5.0 | --- |

OIL ANALYSIS REPORT



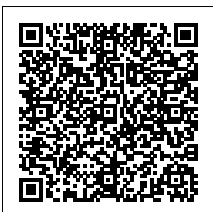
| FLUID CLEANLINESS | method | limit/base | current | history1 | history2 |
|-------------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >2500 | 897 | --- | --- |
| Particles >6µm | ASTM D7647 | >640 | 162 | --- | --- |
| Particles >14µm | ASTM D7647 | >80 | 14 | --- | --- |
| Particles >21µm | ASTM D7647 | >20 | 4 | --- | --- |
| Particles >38µm | ASTM D7647 | >4 | 1 | --- | --- |
| Particles >71µm | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >18/16/13 | 17/15/11 | --- | --- |

| FLUID DEGRADATION | method | limit/base | current | history1 | history2 |
|-------------------|----------|-------------|--------------|----------|----------|
| Oxidation | Abs./1mm | ASTM D7414* | 154.1 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.67 | --- | --- |

| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|--------------|----------|----------|
| White Metal | scalar | Visual* | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | --- | --- |
| Precipitate | scalar | Visual* | NONE | --- | --- |
| Silt | scalar | Visual* | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | --- | --- |
| Emulsified Water | scalar | Visual* | NEG | --- | --- |
| Free Water | scalar | Visual* | NEG | --- | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|----------------------|--------|---------------|---------|-------------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 47.0 | 45.6 | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | 8.1 | 8.5 | --- |
| Viscosity Index (VI) | Scale | ASTM D2270* | 146 | 166 | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | | |
| Bottom | | | | | |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02625863
Unique Number : 5758995
Test Package : MOB 2 (Additional Tests: TAN Man)

Received : 01 Apr 2024
Tested : 03 Apr 2024
Diagnosed : 04 Apr 2024 - Bill Quesnel

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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MINERAL OIL CONTENT REPORT

PASS

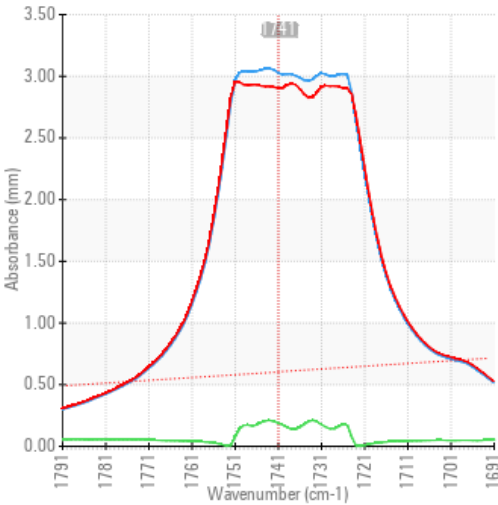


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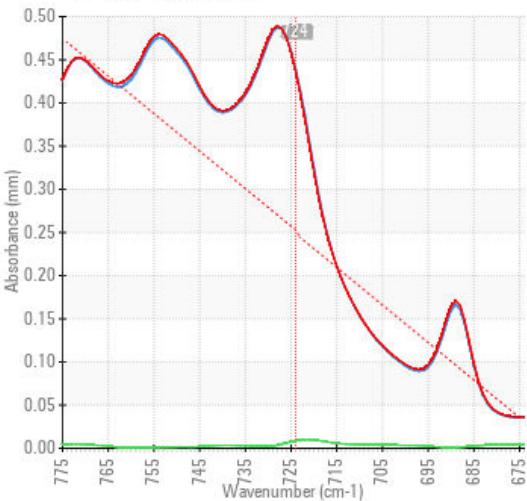
SPECTRAL ANALYSIS

| | | method | limit/base | current | history1 | history2 |
|---------------------|-----|---------------|------------|----------------|----------|----------|
| Zinc | ppm | ASTM D5185(m) | 0 | 7 | --- | --- |
| Mineral Oil Content | % | ASTM D7418* | <5.0% | <5.0 | --- | --- |

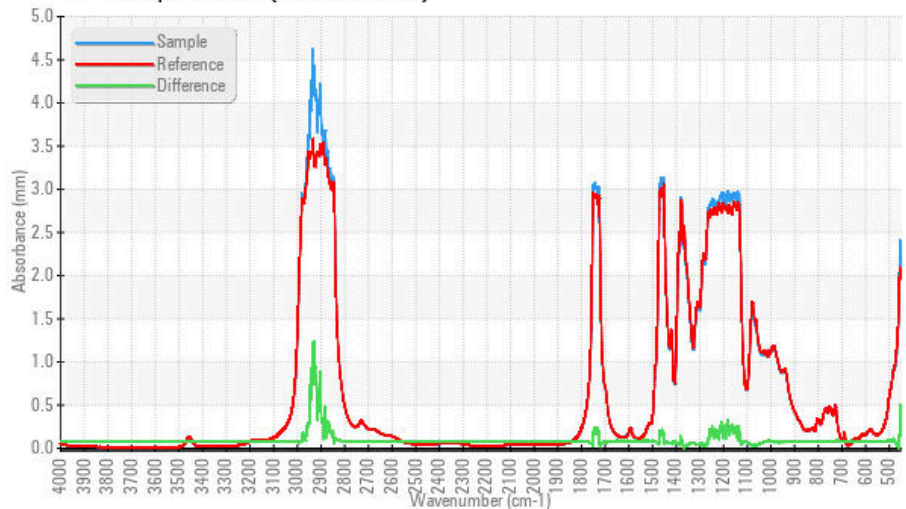
FT-IR - Esters I



FT-IR - Esters II



FT-IR Spectrum (Absorbance)



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
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